



**UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
08/749,486	11/15/96	SIMMERS	C 042390.P3581

E6M1/1030
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EXAMINER

LEWIS, D

ART UNIT	PAPER NUMBER
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2609

DATE MAILED: 10/30/97

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.
08/749,486

Applicant(s)
Simmers

Examiner
David L. Lewis

Group Art Unit
2609

☐ Responsive to communication(s) filed on _____

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

☒ Claim(s) 1-13 is/are pending in the application.

Of the above, claim(s) _____ is/are withdrawn from consideration.

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) 1-13 is/are rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been received.

☐ received in Application No. (Series Code/Serial Number) _____

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☒ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

Title: Application of Split and Dual Screen LCD Panel Design in Cellular Phones

DETAILED ACTION #2

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. **Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Shimada (5394166).**

As in claim 1, 5, and 6, Shimada teaches of an information device having a CPU, **figure 8 item 19**, display controller, **figure 8 item 18**, and a display panel, **figure 8 item 17**, said display panel split logically into sub-panels, **column 1 lines 65-68**, an apparatus comprising: a plurality of segment drivers, **figure 3**, a power control block coupled to said CPU and to said segment drivers to disable a first power source, **figure 1 item**

2. As in claim 2, Shimada teaches wherein said power control block disables a second power source, **figure 1 item 2**. As in claim 3, Shimada teaches wherein said first and second power source are independently switched by said power control block, **column 5 lines 25-50**. As in claim 4, wherein said information device has a normally open latch, said power control block to disable said first power source when said latch is

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closed, column 5 lines 25-33. Wherein the devices normally open latch corresponds to the internal latch for register 2 control signal DISP being set for the normal mode, turning it to "H". **As in claim 7**, wherein said segment driver comprises a pin, **figure 3**.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. **Claims 8-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimada (5394166) in view of Britz (5414444).**

As in claim 8, Shimada teaches of an information device having a single display panel logically split into a first and second sub-panel, **column 1 lines 64-68**. **However Shimada does not teach of** said device comprising a top shell, a joint coupled to said top shell for folding said device, a bottom shell coupled to said top shell containing said display panel, wherein when said device is closed, a first power signal is disabled to power

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down a sub-panel. **Britz teaches of** an information device comprising a top shell, a joint coupled to said top shell for folding said device, a bottom shell coupled to said top shell containing said display panel, **figure 2**, wherein when said device is closed, a first power signal is disabled to power down a sub-panel, **column 2 lines 59-68**. Wherein Britz teaches of a cellular mode, corresponding to the reduction mode as taught by Shimada, wherein the display screen switches from a full display format to a partial display for the purpose of conserving power. Shimada teaches of a segmented display that one skilled in the art would utilize to accompany the personal communicator as taught by Britz, for the purpose of producing a cellular mode and multimedia mode, each mode being activated in correspondence to the position of the hinged member. Therefore it would have been obvious to one skilled in the art at the time of the invention to combine the segmented display as taught by Shimada with the personal communicator as taught by Britz, for the purpose of selectively disabling portions of a display to conserve power when said portions are not needed, **as found in claims 8-10**.

5. **Claims 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimada (5394166) in view of Britz (5414444), further in view of Isumi et al (5218399).**

As in **claims 11-13**, Shimada in view of Britz teaches an information device with a display comprising sub-panels, with a control means for selectively powering portions of said display, **as shown above regarding claims 8-10**. Further, having two separate display panels, each display panel on separate physical planes, would have been obvious to one skilled in the art. Izumi teaches of a display system with two separate

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displays forming one system, **figure 1**, wherein one display is dot matrix type and a second display is a segment type, wherein the segment display consumes less power than the dot matrix display, and the power to both displays is selectively controllable based on the system display needs determined by a display controller. Izumi teaches of two separate displays for the purpose of conserving power. Therefore it would have been obvious to one skilled in the art at the time of the invention to replace a selectively controllable sub-panel display as taught by Shimada in view of Britz, with two separate display panels, as taught by Izumi, each display panel obviously on a second plane, for the purpose of conserving power, **as found in claims 11-13.**

Response to Arguments

6. Applicant's arguments with respect to claims 1-13 have been considered but are moot in view of the new ground(s) of rejection. See new rejection above.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. (5450619, 5646649, 5369788, 5655124, 5634131)

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to **David L. Lewis** whose telephone number is **(703) 306-3026**. The examiner can normally be reached on MT and THF from 8 to 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (703) 305-4709. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

(703) 308-9051, (for formal communications intended for entry)

Or:

(703) 308-6606 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Or hand-delivered to:

Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).



STEVEN SARAS
PRIMARY EXAMINER
GROUP 2600

Examiner: David L. Lewis

October 27, 1997